HI, KIDS, HERE'S A STORY ABOUT CIVIL DEFENSE.

OPERATION SURVIVAL!

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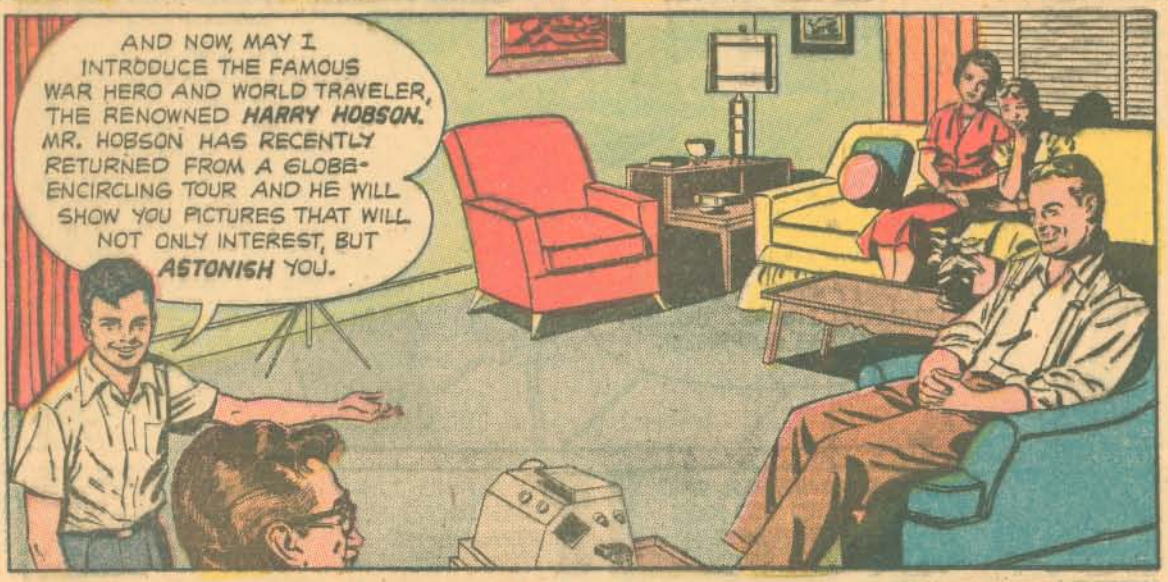
JIM AND SALLY LIVED WITH THEIR MOTHER AND FATHER NEAR THE TOWN OF CENTERVILLE.

HURRY UP, JIM...IT'S ALMOST TIME FOR UNCLE HARRY TO BE HERE.

I'M HURRYING...BOY, I CAN'T WAIT TO SHOW HIM THE BOAT I BUILT. I'LL BET HE'LL BE SURPRISED.

I WISH WE COULD HEAR YOUR LECTURE TONIGHT, UNCLE HARRY. IT WOULD BE JUST FOR THE MEN'S CLUB.
COULD YOU SHOW US SOME OF YOUR COLORED SLIDES BEFORE YOU GO?
I DON'T SEE WHY NOT.

HELP ME PUT UP THE SCREEN, WILL YOU, MOM? UNCLE HARRY'S GOING TO SHOW US SOME OF HIS SLIDES.
A SNEAK PREVIEW, EH?
SURE IS, DAD. GRAB YOURSELF A FRONT SEAT.

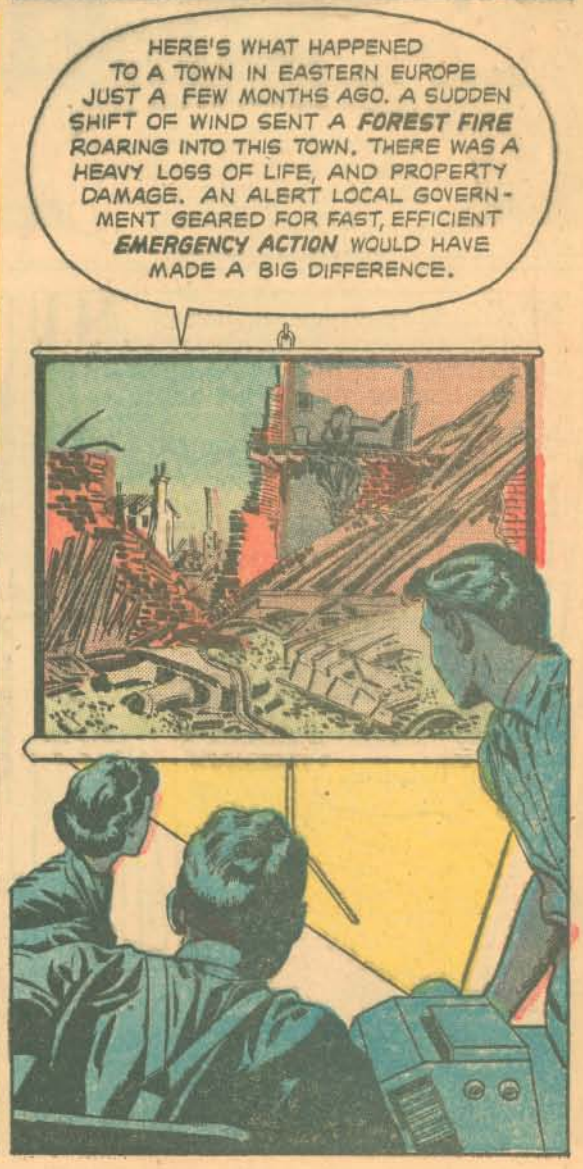

AND NOW, MAY I INTRODUCE THE FAMOUS WAR HERO AND WORLD TRAVELER, THE RENOWNED HARRY HOBSON. MR. HOBSON HAS RECENTLY RETURNED FROM A GLOBE-ENCIRCLING TOUR AND HE WILL SHOW YOU PICTURES THAT WILL NOT ONLY INTEREST, BUT ASTONISH YOU.

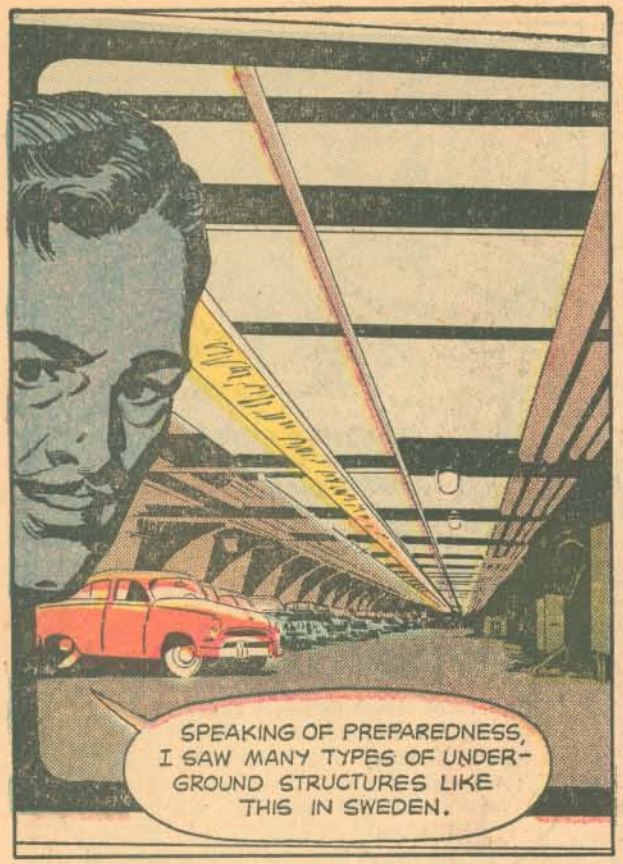
A NUMBER OF SLIDES ARE SHOWN OF HARRY'S TRAVELS.
NOW HERE'S ONE OF THE GREAT WALL OF CHINA. IT WAS BUILT ABOUT 2,000 YEARS AGO AND WAS OVER 2,500 MILES LONG. THINK OF IT! THE DISTANCE BETWEEN CHICAGO AND SAN FRANCISCO. THE WALL WAS BUILT TO PROTECT CHINA FROM THE WILD TRIBES TO THE NORTH.

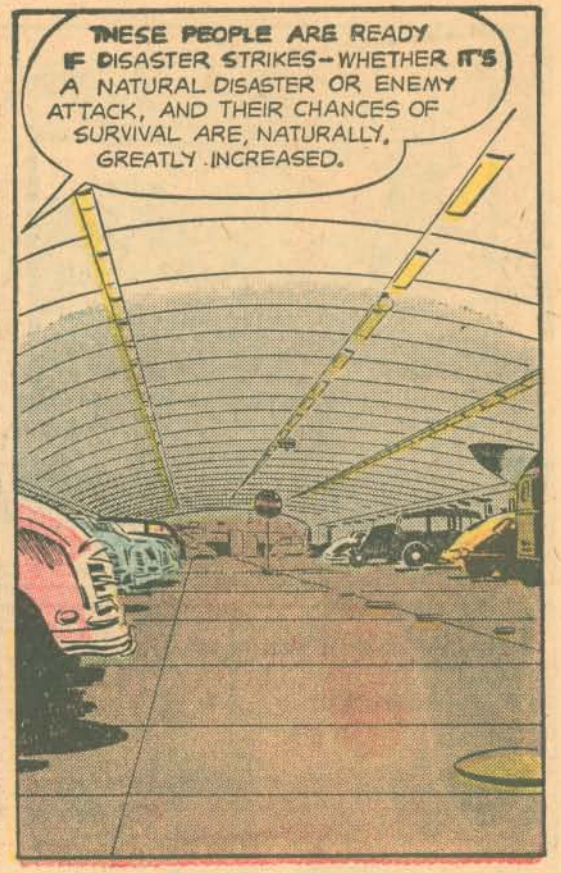
THIS PICTURE IS OF THE RUINS OF THE ANCIENT ITALIAN CITY OF POMPEII. THE CITY WAS DESTROYED BACK IN THE YEAR 79 A.D. BY AN ERUPTION OF MT. VESUVIUS. THAT'S THE VOLCANO IN THE BACKGROUND. HUNDREDS AND HUNDREDS OF PEOPLE WERE KILLED.

IF THE CITY FATHERS OF POMPEII HAD HAD A MODERN DISASTER PLAN WITH AN ADEQUATE WARNING SYSTEM, MANY PEOPLE MIGHT HAVE BEEN SAVED.

THIS CASTLE IS TYPICAL OF THE STRONGHOLDS THAT WERE BUILT IN EUROPE IN FEUDAL TIMES. THE CASTLE WAS A VITAL PLACE OF REFUGE WHEN DANGERS THREATENED. WHEN AN ENEMY INVADED THE LAND, THE WHOLE COMMUNITY WENT INSIDE THE CASTLE WALLS. SURROUNDED BY A MOAT FILLED WITH WATER, AND WITH THE DRAW-BRIDGE RAISED, THE DEFENDERS COULD WITHSTAND A LONG SIEGE.


HERE'S WHAT HAPPENED TO A TOWN IN EASTERN EUROPE JUST A FEW MONTHS AGO. A SUDDEN SHIFT OF WIND SENT A FOREST FIRE ROARING INTO THIS TOWN. THERE WAS A HEAVY LOSS OF LIFE, AND PROPERTY DAMAGE. AN ALERT LOCAL GOVERNMENT GEARED FOR FAST, EFFICIENT EMERGENCY ACTION WOULD HAVE MADE A BIG DIFFERENCE.


SPEAKING OF PREPAREDNESS, I SAW MANY TYPES OF UNDER-GROUND STRUCTURES LIKE THIS IN SWEDEN.

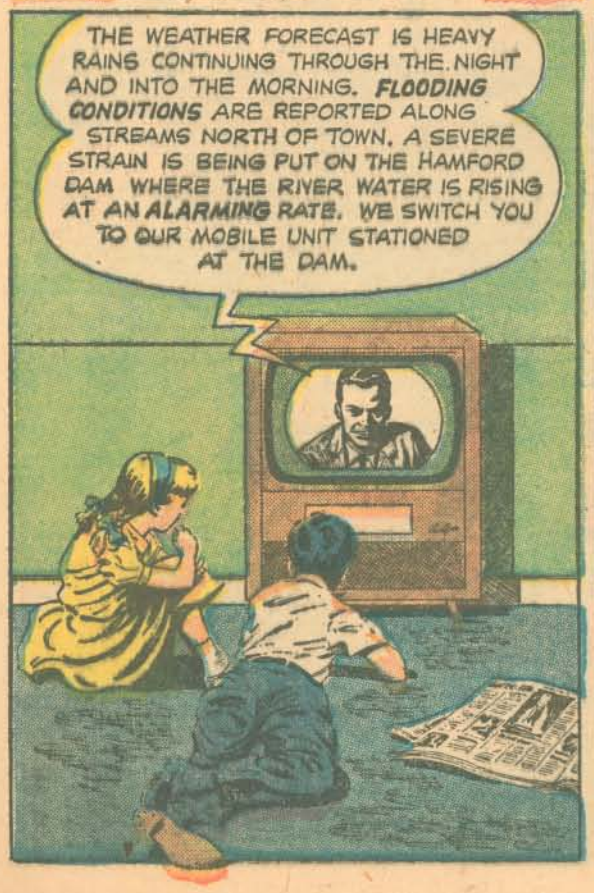

THESE PEOPLE ARE READY IF DISASTER STRIKES--WHETHER IT'S A NATURAL DISASTER OR ENEMY ATTACK, AND THEIR CHANCES OF SURVIVAL ARE, NATURALLY, GREATLY INCREASED.

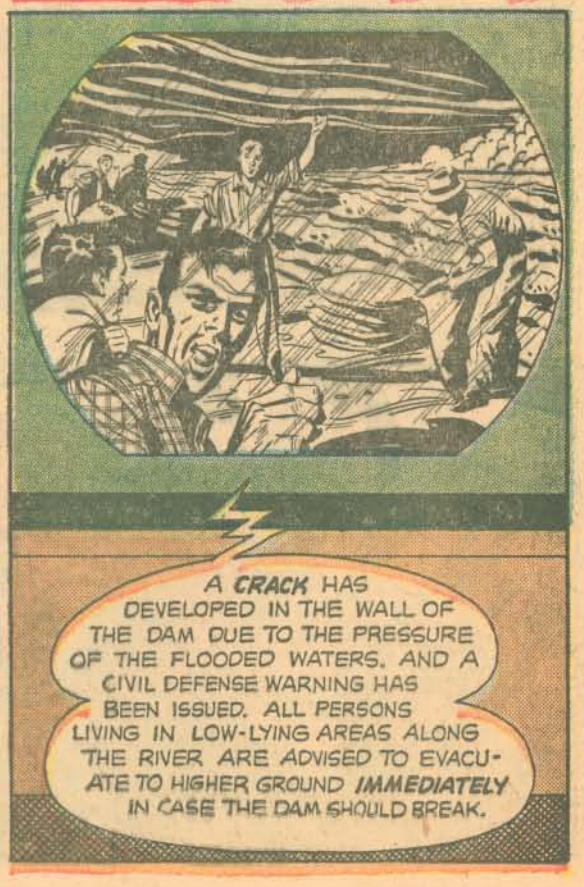
I HATE TO INTERRUPT, HARRY, BUT IT LOOKS AS IF WE'RE IN FOR A BAD STORM. I THINK WE'D BETTER LEAVE BEFORE IT GETS ANY WORSE. THE MEN'S CLUB WOULD NEVER FORGIVE ME IF THE CHIEF AFTER-DINNER SPEAKER TURNED UP LATE.
O.K., PAUL.

YOU'VE CERTAINLY HAD MORE THAN YOUR SHARE OF RAIN UP HERE.
I'LL SAY. THAT DOWNPOUR TEN DAYS AGO SATURATED THE LAND TO THE NORTH, AND THE RAINS SINCE HAVE SENT A LOT OF THE BROOKS AND CREEKS OVER THEIR BANKS.

ANY DANGER OF THE RIVER FLOODING? AFTER ALL, THOSE STREAMS FEED INTO IT.
WE'RE O.K. AS LONG AS THE DAM AT HAMFORD HOLDS! IT'S BEING WATCHED AND EVERYTHING SEEMS ALL RIGHT. BUT WITH THIS ADDED RAINFALL, I DON'T KNOW.

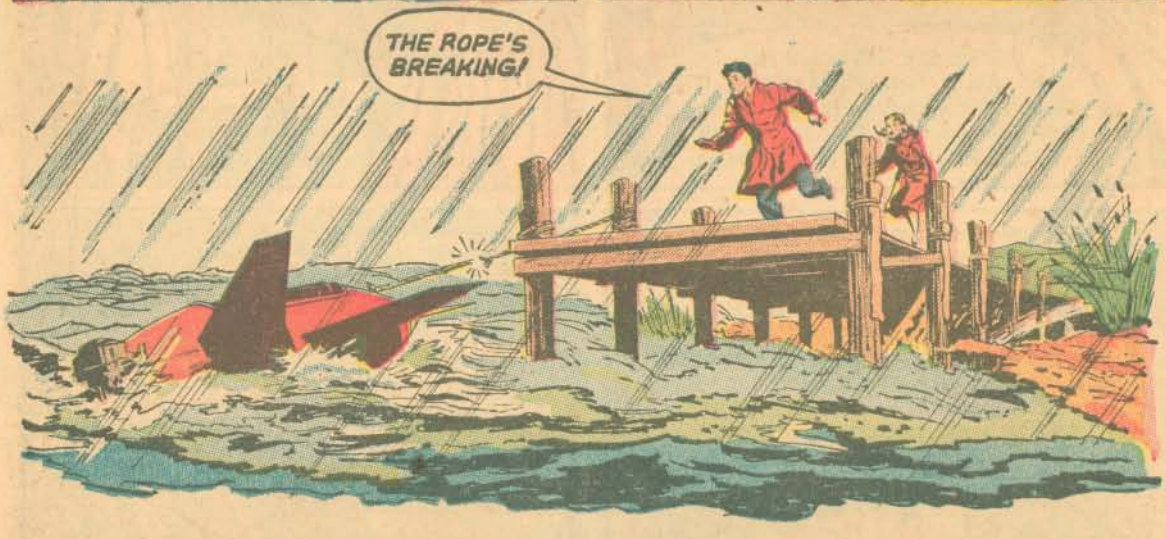
I SIMPLY MUST FINISH THAT LETTER TO GRANDMOTHER BEFORE I START COOKING DINNER.
TURN ON THE TV, WILL YOU, JIM?


THE WEATHER FORECAST IS HEAVY RAINS CONTINUING THROUGH THE NIGHT AND INTO THE MORNING. FLOODING CONDITIONS ARE REPORTED ALONG STREAMS NORTH OF TOWN. A SEVERE STRAIN IS BEING PUT ON THE HAMFORD DAM WHERE THE RIVER WATER IS RISING AT AN ALARMING RATE. WE SWITCH YOU TO OUR MOBILE UNIT STATIONED AT THE DAM.


A CRACK HAS DEVELOPED IN THE WALL OF THE DAM DUE TO THE PRESSURE OF THE FLOODED WATERS. AND A CIVIL DEFENSE WARNING HAS BEEN ISSUED. ALL PERSONS LIVING IN LOW-LYING AREAS ALONG THE RIVER ARE ADVISED TO EVACUATE TO HIGHER GROUND IMMEDIATELY IN CASE THE DAM SHOULD BREAK.

WE REPEAT THE CD WARNING. ALL PERSONS LIVING IN LOW-LYING AREAS...
MY BOAT! WE'VE GOT TO PULL HER UP TO HIGH GROUND. GRAB YOUR RAINCOAT, SALLY, AND--C'MON!

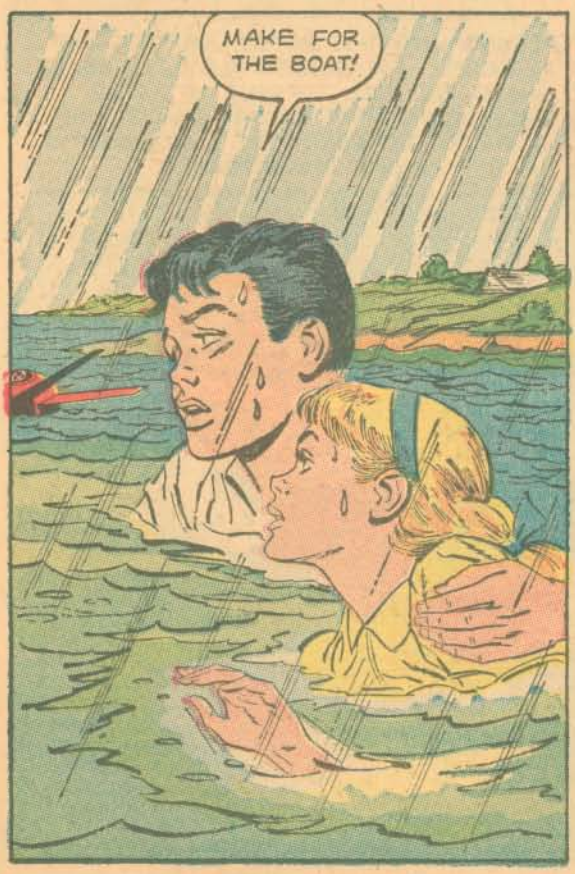
JIM! SALLY! WHAT ON EARTH ARE THEY DOING OUT IN THIS WEATHER?


THE ROPE'S BREAKING!

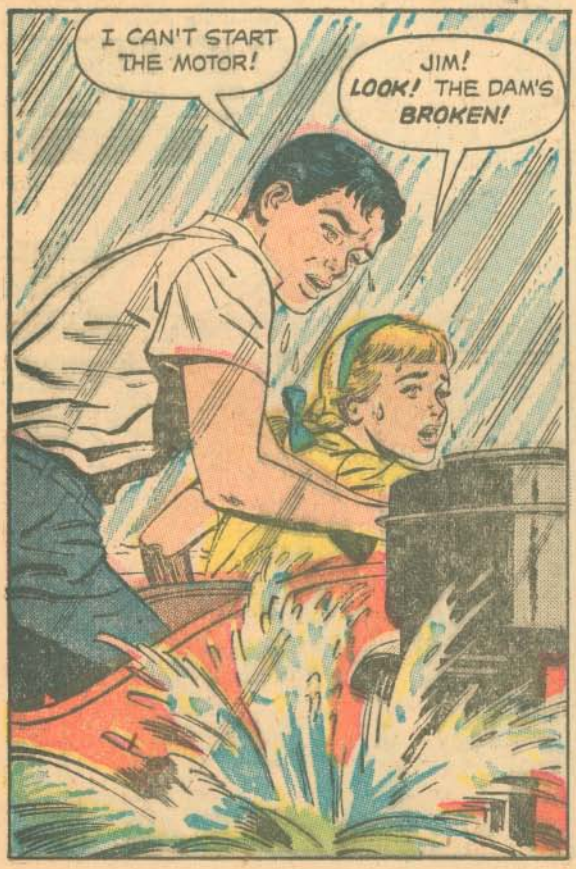
I'VE GOT IT!

SALLY DOES MANAGE TO GRASP THE END OF THE ROPE. BUT SHE IS OFF BALANCE...
OHHHHH!

HOLD ON, SALLY! GET RID OF THAT RAINCOAT!


MAKE FOR THE BOAT!

MEANWHILE, SALLY AND JIM'S MOTHER...
THEY NEVER SHOULD HAVE GONE OUT IN A STORM LIKE THIS!



ABANDONING THE MOTOR, JIM GETS OUT THE OARS. BUT BEFORE THEY CAN REACH SHORE, THE FULL TORRENT OF WATER RELEASED BY THE BROKEN DAM BEARS DOWN ON THE BOAT. THE SMALL BOAT IS FLUNG DOWNSTREAM.

BACK IN CENTERVILLE, MAYOR BROWN IS DIRECTING THE CITY'S EMERGENCY DISASTER PLAN...

POLICE

WELFARE

FIRE

RED CROSS

HEAL

EMERGENCY INSTRUCTIONS ARE GIVEN TO THE PEOPLE OVER SOUND TRUCKS DRIVING THROUGH THE STREETS...

CITY OF CENTERVILLE

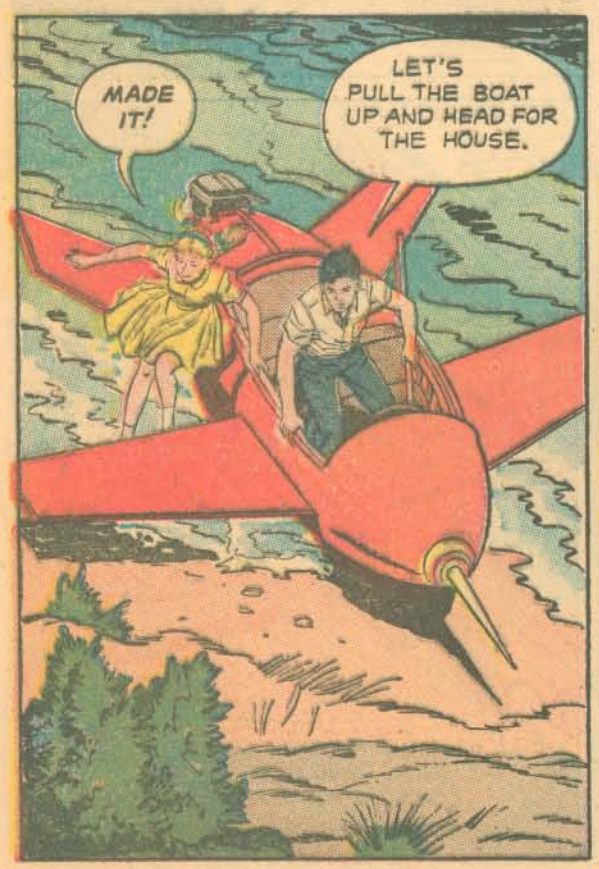
POLICE

PD

FOLLOWING THE MAYOR'S CONFERENCE, THE TOTAL RESOURCES OF THIS COMMUNITY ARE MOBILIZED...

BUT DAYLIGHT GIVES WAY TO THE BLACKNESS OF NIGHT, AND JIM AND SALLY ARE STILL NOT PICKED UP!

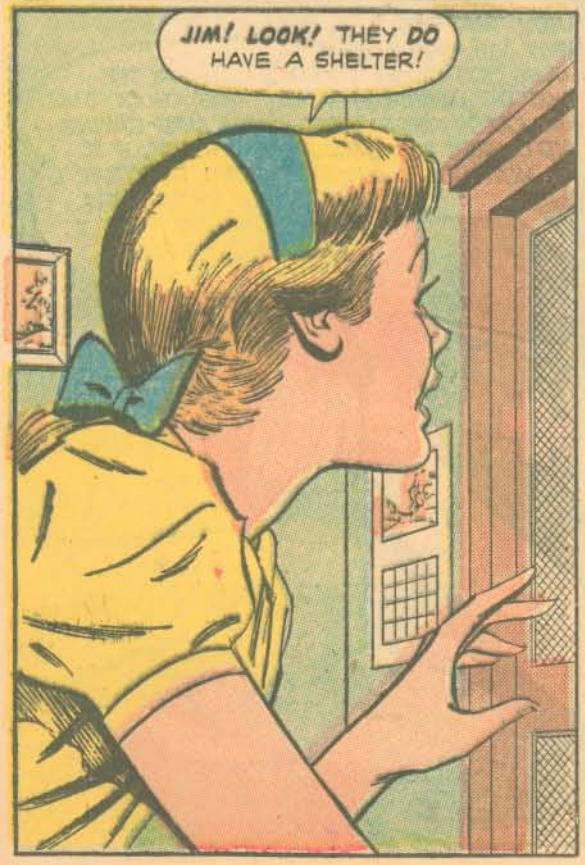
TOWARD DAWN...
WE CAN GO TO THAT HOUSE IF I CAN GET US TO SHORE!

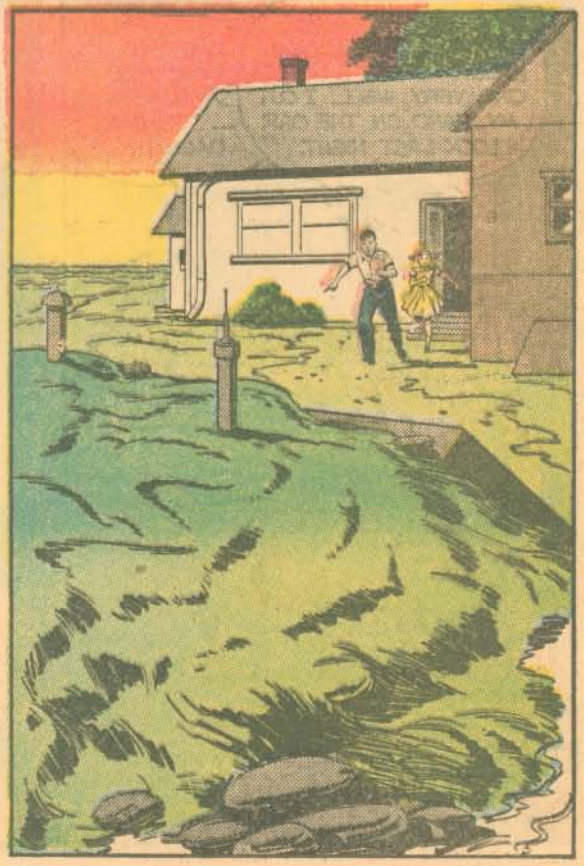

MADE IT!
LET'S PULL THE BOAT UP AND HEAD FOR THE HOUSE.

THE CHANCES ARE THE PEOPLE WHO LIVE HERE HAVE BEEN EVACUATED. BUT MAYBE WE CAN FIND SOMETHING TO EAT. I'M STARVED.

JUST AS I THOUGHT, NOBODY'S AROUND.
I GUESS THEY WON'T MIND IF WE STAY HERE.

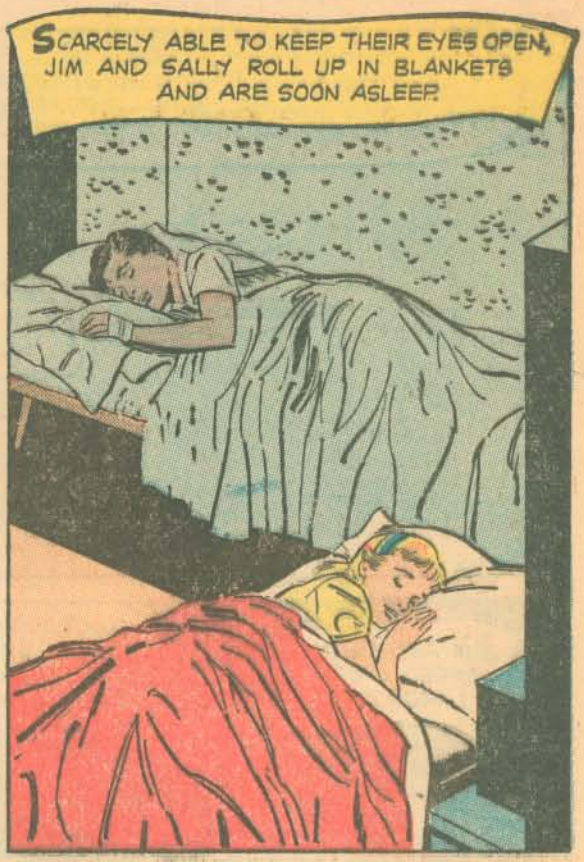
THE REFRIGERATOR ISN'T WORKING.
THE POWER LINES ARE DOWN. THE FOOD IN THERE IS PROBABLY O.K. FOOD DOESN'T SPOIL WITHOUT REFRIGERATION UNTIL AFTER THIRTY-SIX HOURS. BUT THERE'S NO SENSE TAKING A CHANCE. MAYBE THESE FOLKS HAVE AN EMERGENCY FOOD SUPPLY LIKE WE HAVE IN OUR SHELTER AT HOME.


JIM! LOOK! THEY DO HAVE A SHELTER!

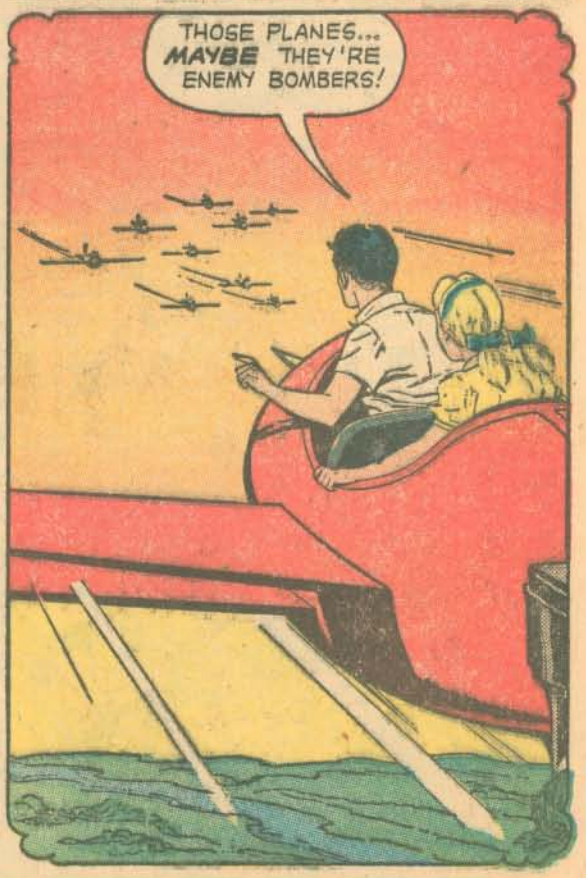


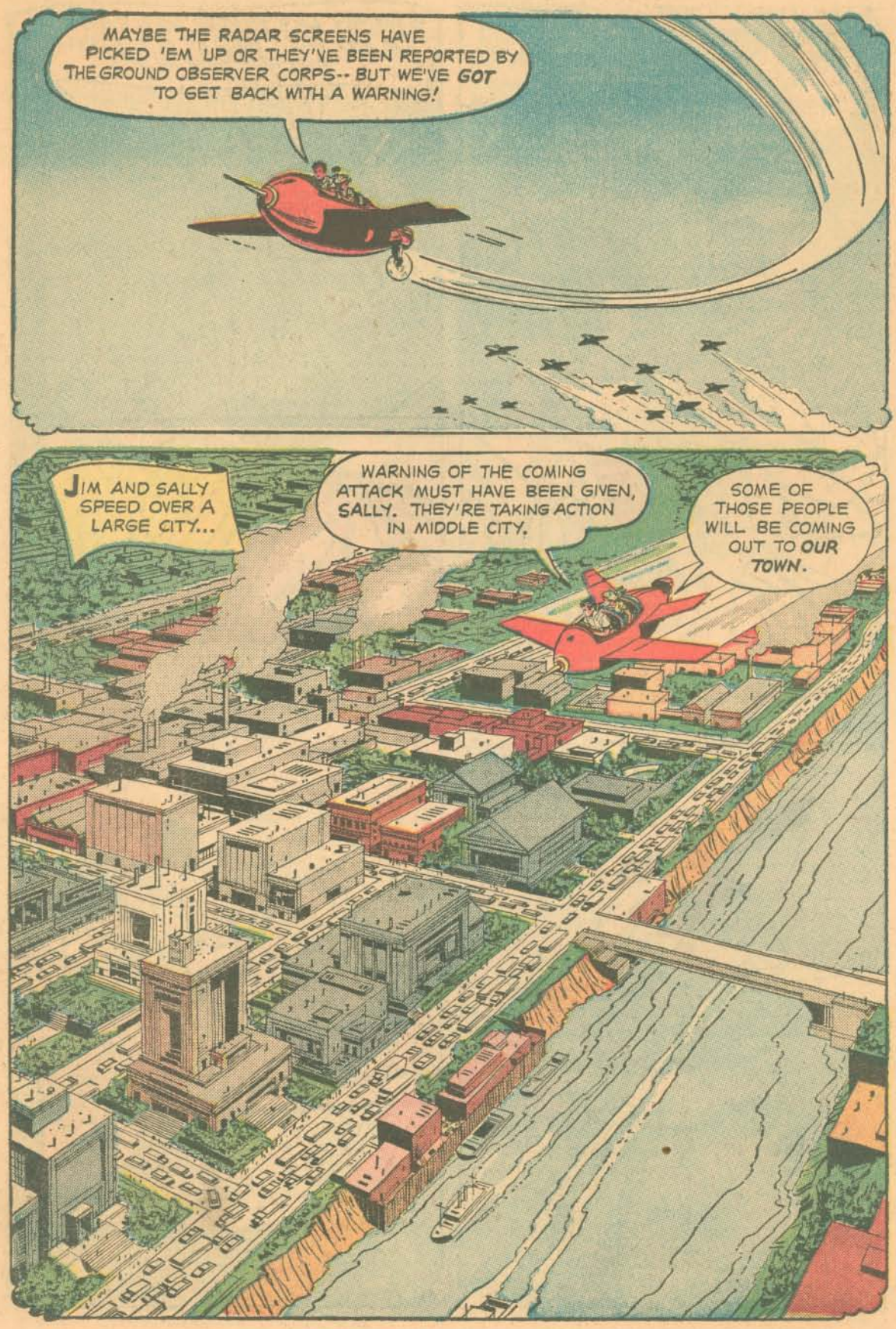
THE SHELTER IS OUTFITTED WITH A 7-DAY SUPPLY OF EMERGENCY FOOD AND WATER, BATTERY-POWERED RADIO, FLASHLIGHTS, BLANKETS, FIRST-AID KIT AND THE OTHER ESSENTIAL SUPPLIES.
LET'S HOPE THEY HAVEN'T OVERLOOKED THE FOOD DEPARTMENT.
BOY! IT IS WELL-EQUIPPED. NOW--LET'S EAT!
FIRST AID
KIT
GET BUSY WITH THE CAN OPENER, WILL YOU, SALLY? I CAN'T WORK ONE VERY WELL. I CUT MY HAND ON THE OAR LOCK LAST NIGHT.
JIM! WHY DIDN'T YOU SAY SOMETHING ... I'LL BANDAGE IT.
HEY, THAT'S A NEAT JOB, SIS. I GUESS YOU DIDN'T TAKE THE JUNIOR RED CROSS FIRST-AID COURSE FOR NOTHING.
AND I CAN SAY THE SAME THING ABOUT THAT RED CROSS LIFE-SAVING COURSE YOU TOOK, IF IT HADN'T BEEN FOR THAT, I DON'T KNOW WHAT MIGHT HAVE HAPPENED WHEN I FELL INTO THE RIVER.

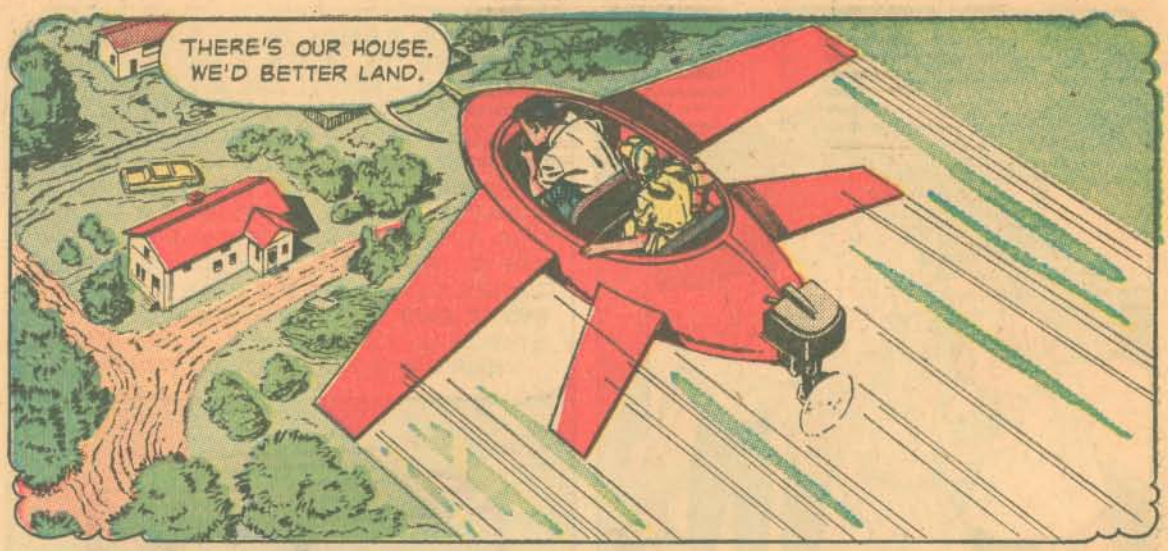
A FEW MOMENTS LATER...
DOES THIS TASTE GOOD!
I'LL SAY... WE CAN THANK OUR LUCKY STARS THIS FAMILY WAS PREPARED FOR A DISASTER. I ONLY HOPE MOM AND DAD AREN'T TOO WORRIED ABOUT US.

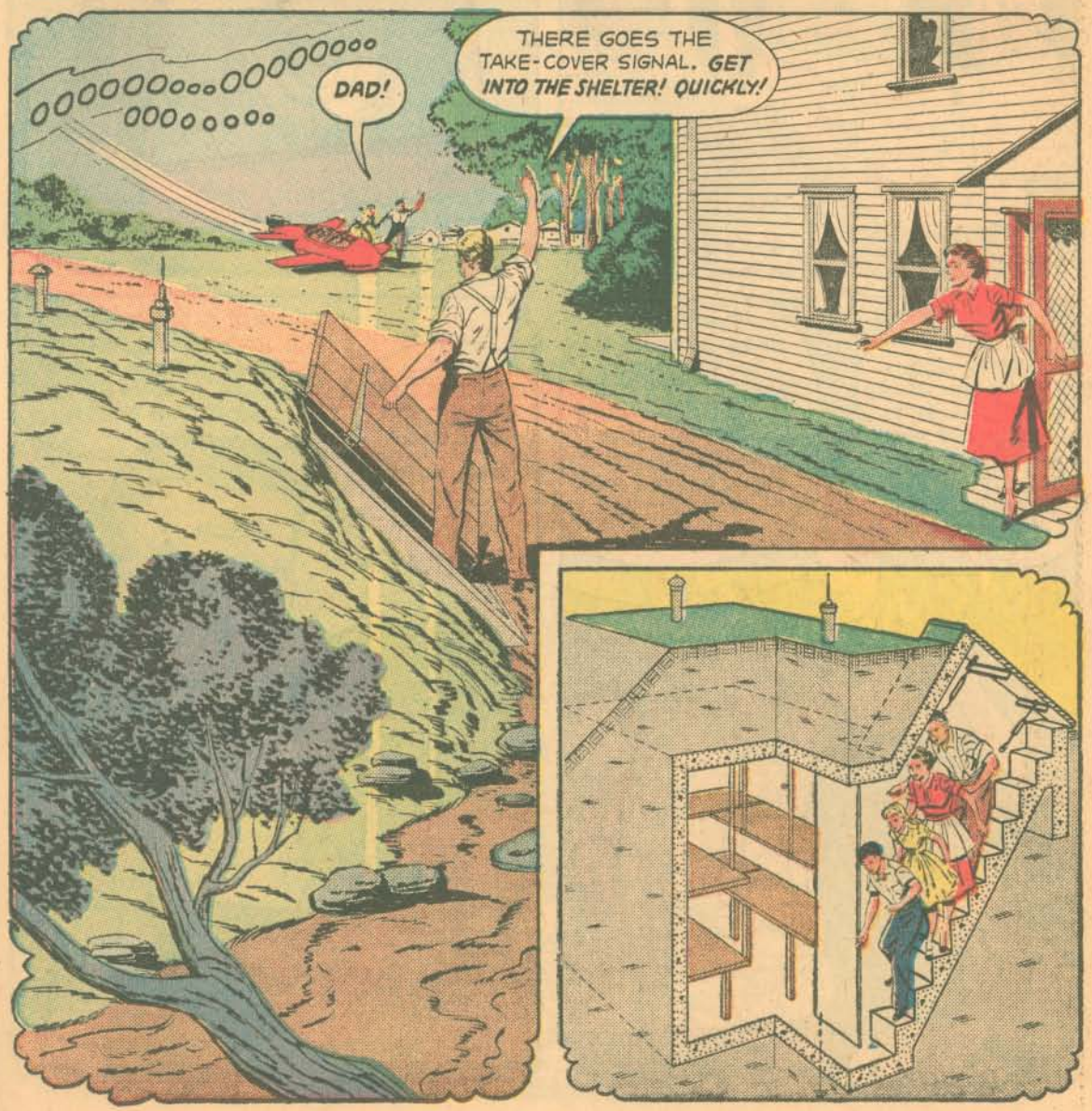

SCARCELY ABLE TO KEEP THEIR EYES OPEN, JIM AND SALLY ROLL UP IN BLANKETS AND ARE SOON ASLEEP.

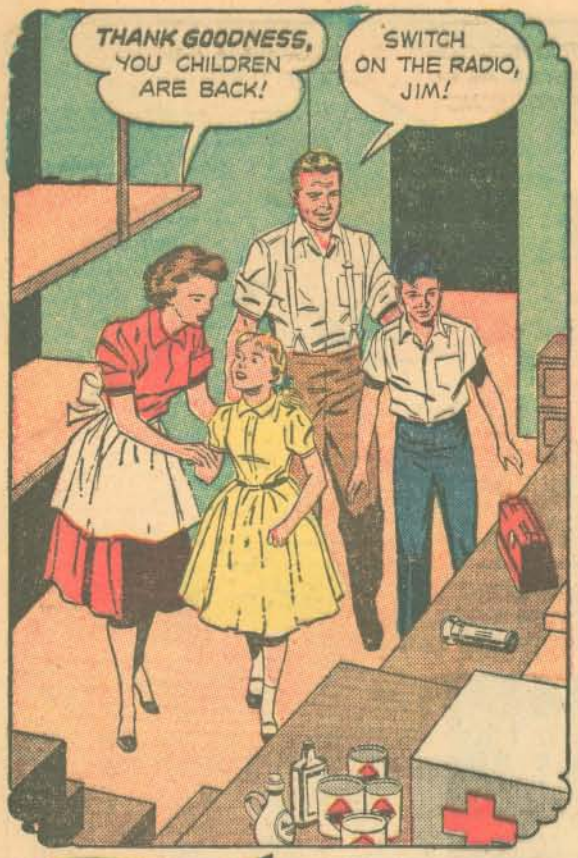
JIM BEGINS TO DREAM...
SALLY! WE'RE TAKING OFF! MY BOAT HAS TURNED INTO A REAL ROCKET!
WHEEEEE!!


THOSE PLANES... MAYBE THEY'RE ENEMY BOMBERS!


MAYBE THE RADAR SCREENS HAVE PICKED 'EM UP OR THEY'VE BEEN REPORTED BY THE GROUND OBSERVER CORPS-- BUT WE'VE GOT TO GET BACK WITH A WARNING!
JIM AND SALLY SPEED OVER A LARGE CITY...
WARNING OF THE COMING ATTACK MUST HAVE BEEN GIVEN, SALLY. THEY'RE TAKING ACTION IN MIDDLE CITY.
SOME OF THOSE PEOPLE WILL BE COMING OUT TO OUR TOWN.


THERE'S OUR HOUSE. WE'D BETTER LAND.


OOOOOOOOOOOOOOOOOO
OOOOOOOO
DAD!
THERE GOES THE TAKE-COVER SIGNAL. GET INTO THE SHELTER! QUICKLY!


THANK GOODNESS, YOU CHILDREN ARE BACK!
SWITCH ON THE RADIO, JIM!

ATTENTION, PLEASE! THIS IS A NATIONAL EMERGENCY! THE AIR FORCE HAS ANNOUNCED THAT ENEMY AIRCRAFT ARE APPROACHING THIS COMMUNITY. AN ATTACK IS IMMINENT. GO TO THE NEAREST AVAILABLE SHELTER AND STAY THERE! THIS IS NOT A TEST! THIS COMMUNITY MAY BE UNDER ENEMY AIR ATTACK WITHIN MINUTES. GO QUICKLY BUT CALMLY TO THE NEAREST SHELTER. TAKE A PORTABLE RADIO AND EMERGENCY FOOD WITH YOU, IF POSSIBLE OBEY YOUR AUTHORITIES. FURTHER INSTRUCTIONS WILL COME TO YOU AT 640 OR 1240 ON YOUR RADIO DIAL. THIS STATION IS NOW LEAVING THE AIR. KEEP YOUR RADIO TUNED TO 640 OR 1240.

TIME PASSES...
WE'VE BEEN HERE FOR HOURS AND I HAVEN'T HEARD ANY BOMB EXPLOSIONS! LET'S GO OUT AND SEE WHAT'S HAPPENED IF ANYTHING!
WE STAY RIGHT HERE UNTIL WE GET AN ALL CLEAR. BOMBS COULD HAVE FALLEN ON A TARGET AREA MANY MILES OFF--WE STILL MIGHT BE IN DANGER FROM RADIOACTIVE FALLOUT!

JUST WHAT IS THIS FALLOUT, ANYWAY, DAD?
FALLOUT IS WHAT WE CALL THE RADIOACTIVE PARTICLES IN THE MUSHROOM CLOUD WHEN AN H-BOMB EXPLODES NEAR THE EARTH.

WHEN AN ***ATOMIC*** OR ***HYDROGEN*** BOMB IS EXPLODED CLOSE TO THE GROUND, THOUSANDS OF TONS OF EARTH AND ROCK ARE TURNED INTO PIECES AS SMALL AS DUST. THESE SMALL PIECES ARE SUCKED UPWARD IN A GREAT ***MUSHROOM*** CLOUD SOMETIMES TO A HEIGHT OF ***80,000 FEET OR MORE.***

A-BOMB

H-BOMB

THUNDERSTO

THE PARTICLES ARE THEN MADE RADIOACTIVE AND FALL BACK TO EARTH OVER A ***WIDE AREA.*** THEY CAN BE CARRIED ***GREAT DISTANCES.*** FOR INSTANCE, IF YOU ARE AS MUCH AS 200 MILES DOWNWIND FROM THE SCENE OF SUCH AN EXPLOSION YOU CAN BE EXPOSED TO THE DANGERS OF RADIO-ACTIVE FALLOUT THAT'S ROUGHLY THE DISTANCE BETWEEN ***WASHINGTON*** AND ***NEW YORK.***

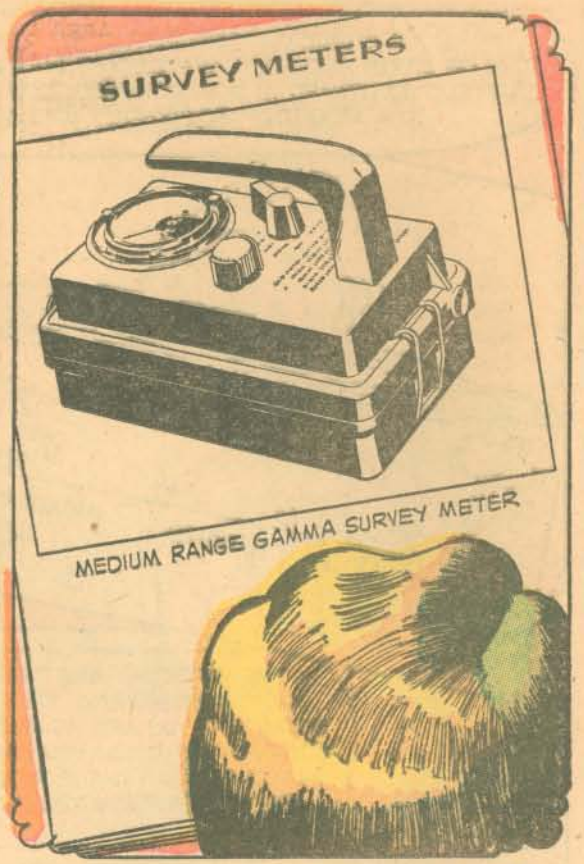
WASHINGTON

NEW YORK

SURVEY INSTRUMENTS

THE ***ONLY WAY*** TO FIND OUT IF AN AREA HAS BEEN MADE DANGEROUS FROM RADIOACTIVE FALLOUT IS TO USE ***SPECIAL INSTRUMENTS*** THAT WILL REACT TO RADIOACTIVITY... HERE ARE SOME PICTURES OF THEM.

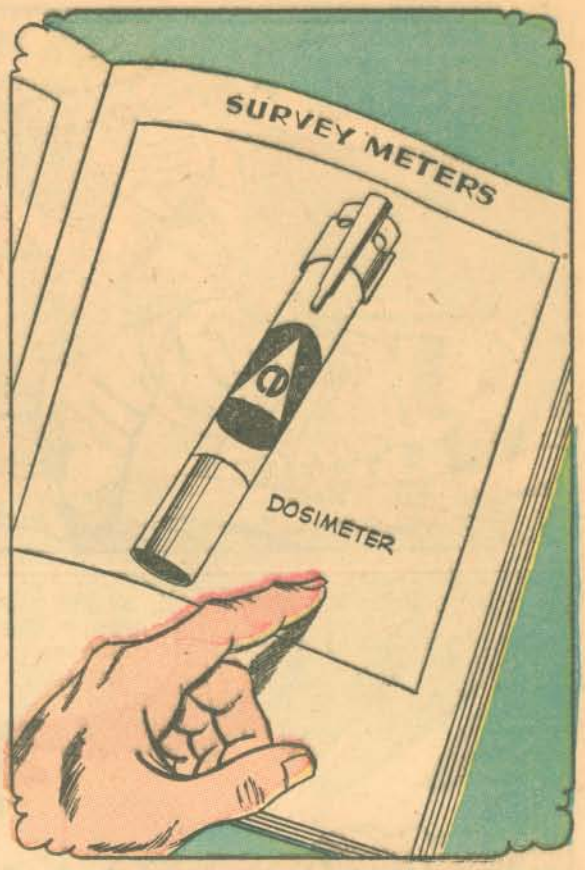
SURVEY ME
GEIGER COUNTER


SURVEY METERS
MEDIUM RANGE GAMMA SURVEY METER

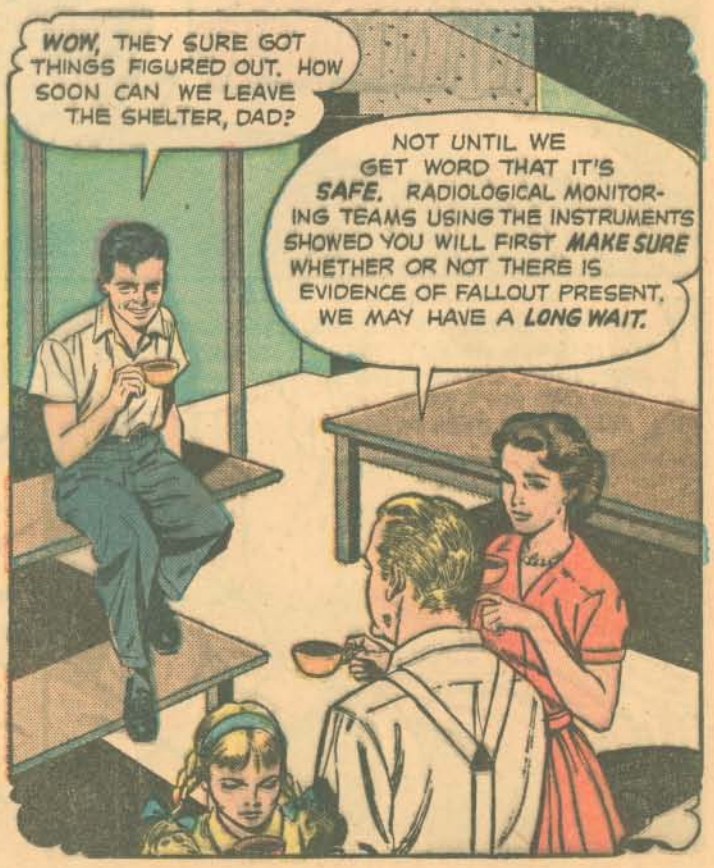
HIGH RANGE BETA-GAMMA SURVEY METER

THESE SURVEY INSTRUMENTS MEASURE THE DEGREE OF *RADIOACTIVITY* PRESENT IN AN AREA. JUST AS THE NEEDLE ON A SPEEDOMETER SHOWS HOW FAST A CAR IS TRAVELING, THE INDICATOR ON THESE INSTRUMENTS TELLS *HOW MUCH* RADIOACTIVITY THERE IS.

NOW, IF YOU HAPPENED TO BE IN AN AREA THAT HAD BEEN MADE RADIOACTIVE BY FALL-OUT, YOU WOULD NEED TO KNOW HOW MUCH RADIOACTIVITY YOU YOURSELF HAD ABSORBED. THERE IS ANOTHER INSTRUMENT THAT MEASURES THIS. IT'S CALLED A DOSIMETER.


SURVEY METERS
DOSIMETER

THE DOSIMETER COULD BE COMPARED TO THE MILEAGE COUNTER ON A CAR WHICH TELLS HOW FAR THE CAR HAS GONE. THE DOSIMETER TELLS HOW MUCH RADIOACTIVITY YOU HAVE TAKEN IN OR ABSORBED.


WOW, THEY SURE GOT THINGS FIGURED OUT. HOW SOON CAN WE LEAVE THE SHELTER, DAD?
NOT UNTIL WE GET WORD THAT IT'S SAFE. RADIOLOGICAL MONITORING TEAMS USING THE INSTRUMENTS SHOWED YOU WILL FIRST MAKE SURE WHETHER OR NOT THERE IS EVIDENCE OF FALLOUT PRESENT. WE MAY HAVE A LONG WAIT.

IT'S COLD IN HERE. WHY, OH WHY DID WE FORGET TO BRING BLANKETS?
LISTEN!

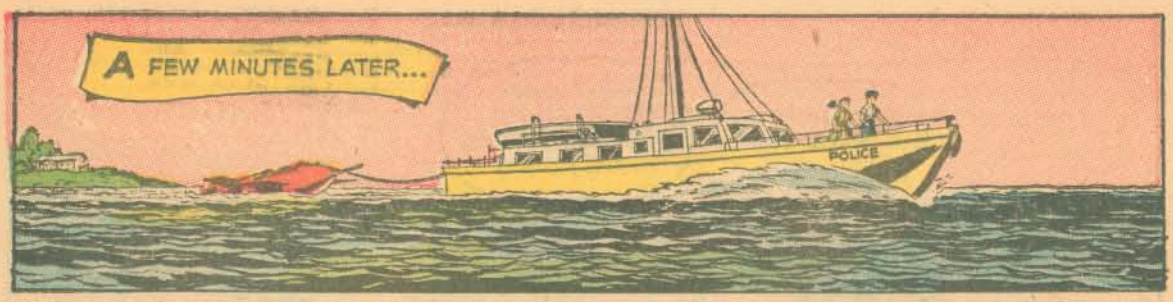
ATTENTION, PLEASE! THIS IS A CIVIL DEFENSE BULLETIN. WE HAVE BEEN INFORMED THAT ATTACKING AIRCRAFT HAVE BEEN DRIVEN FROM THE AREA!

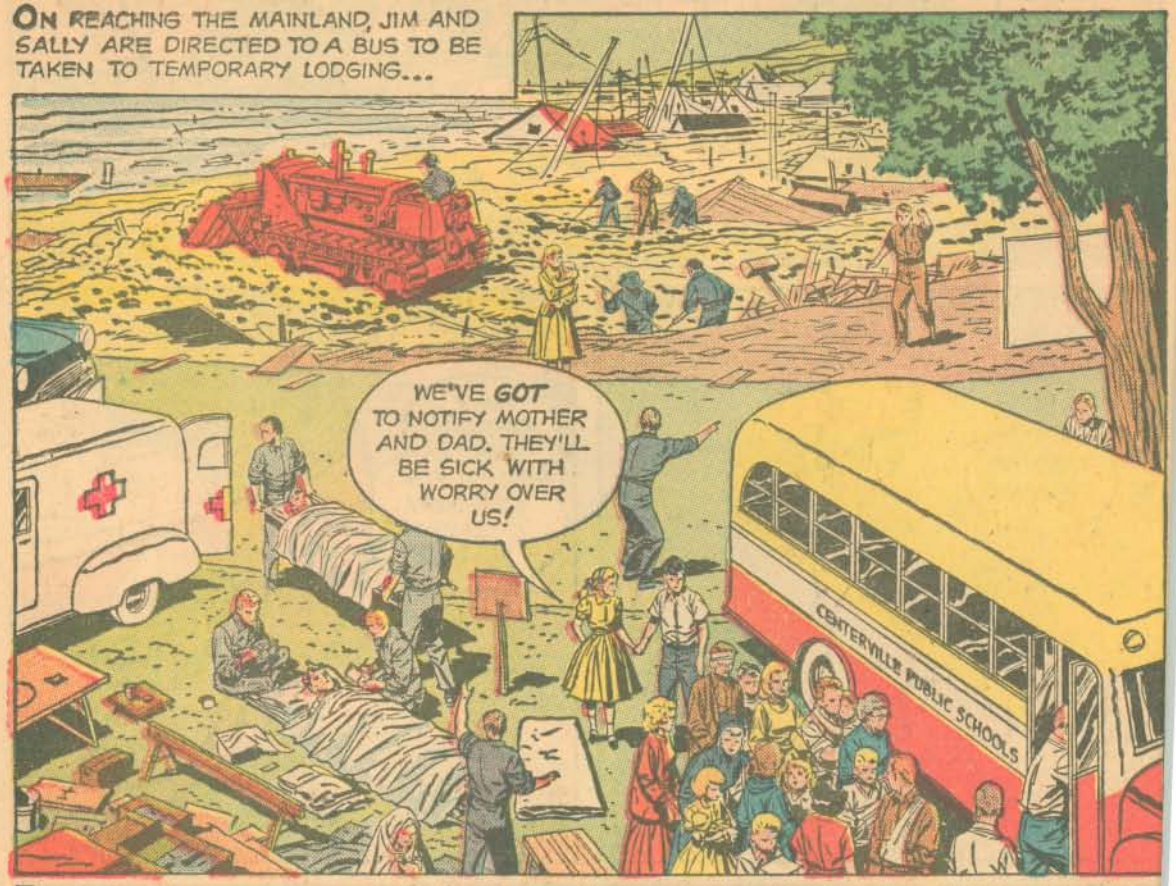
SALLY! THE ENEMY PLANES HAVE TURNED BACK. BUT WE CAN'T GET OUT YET. DAD SAYS WE HAVE TO WAIT UNTIL...

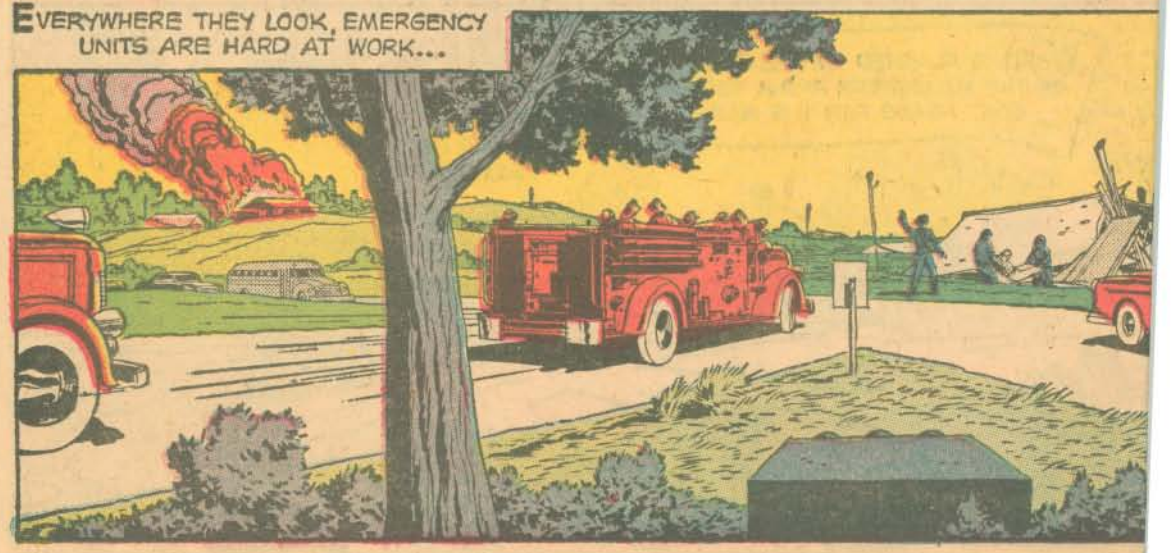
ENEMY PLANES! WHAT ARE YOU TALKING ABOUT? THERE AREN'T ANY ENEMY PLANES. AND DAD ISN'T HERE. YOU MUST HAVE BEEN DREAMING.
DREAMING! YIPES! SO THAT WAS IT!

NOW I REMEMBER! THE FLOOD... LANDING ON THE ISLAND. C'MON, SALLY, LET'S GO AND SEE WHAT'S GOING ON ABOVE.

JIM! THERE'S A HELICOPTER!
WE'VE GOT TO GET THEIR ATTENTION. WAVE YOUR ARMS!
THEY'RE TURNING!
THEY SEE US! THEY'LL SIGNAL FOR SOMEBODY TO COME AND GET US!
STATE POLICE
WORD IS FLASHED BY THE PILOT OF THE HELICOPTER AND A RESCUE BOAT HEADS FOR THE ISLAND.
JIM, WE'RE GOING TO BE RESCUED!


A FEW MINUTES LATER...
POLICE

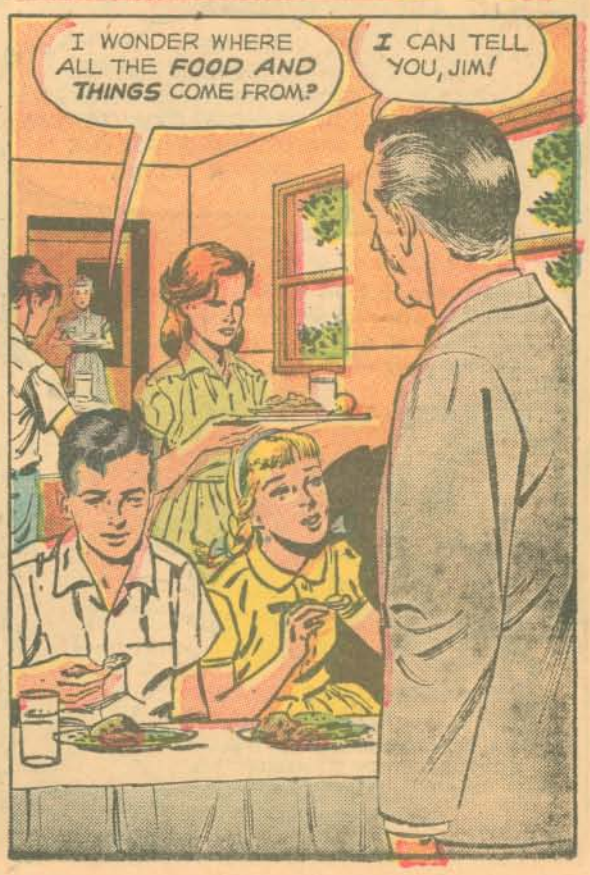

ON REACHING THE MAINLAND, JIM AND SALLY ARE DIRECTED TO A BUS TO BE TAKEN TO TEMPORARY LODGING...
WE'VE GOT TO NOTIFY MOTHER AND DAD. THEY'LL BE SICK WITH WORRY OVER US!
CENTERVILLE PUBLIC SCHOOLS

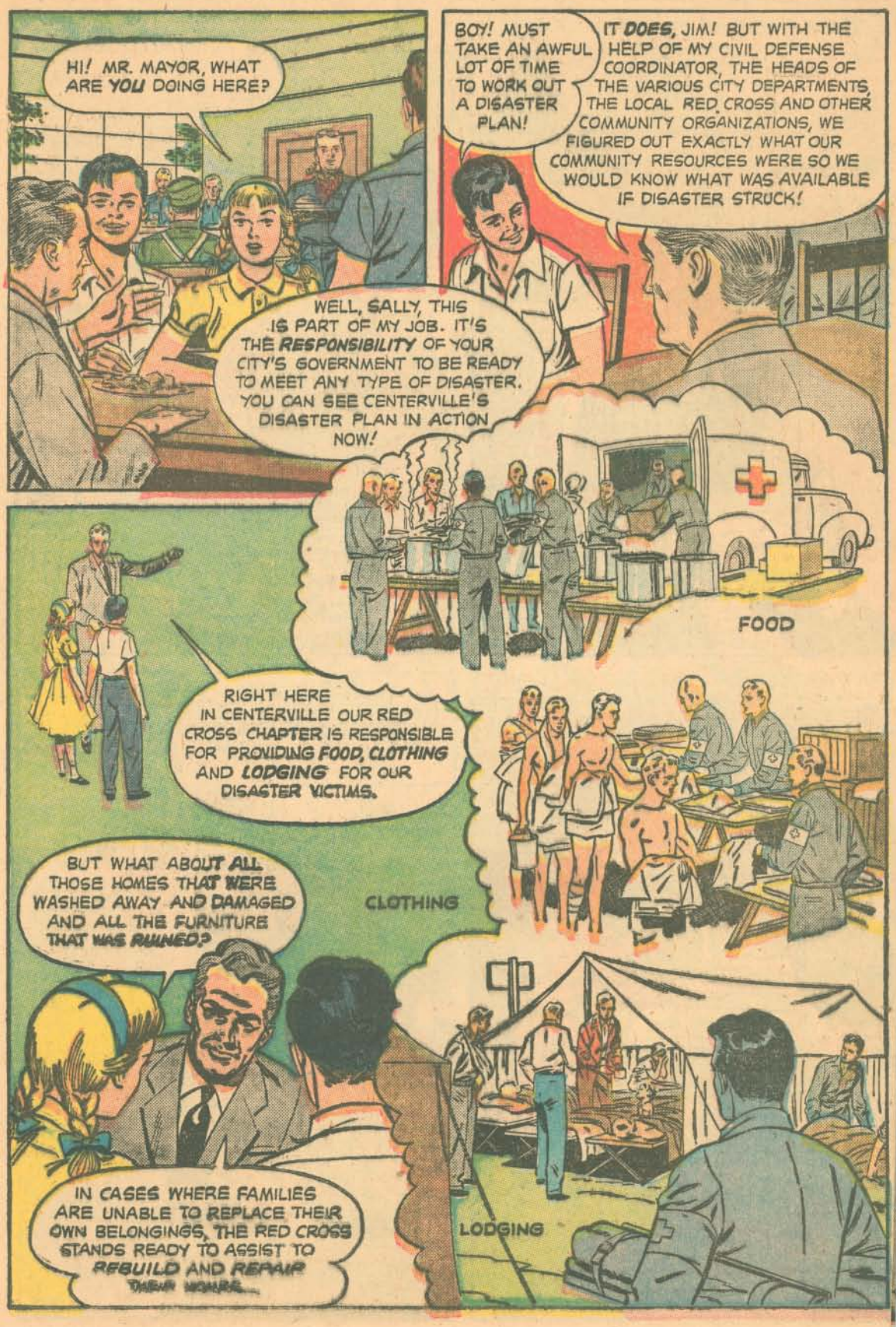

EVERYWHERE THEY LOOK, EMERGENCY UNITS ARE HARD AT WORK...

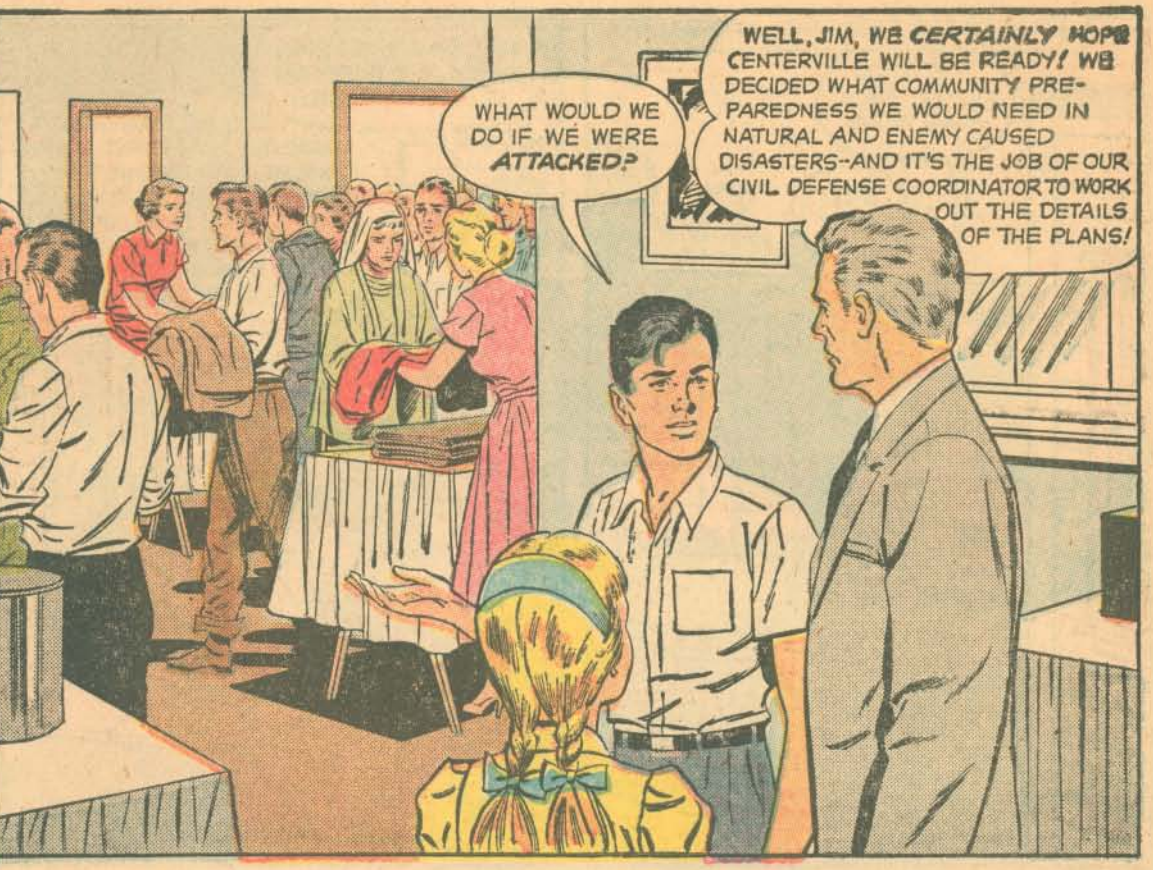
THEY ARRIVE AT TEMPORARY LODGING...
WHAT DO YOU KNOW--WE'RE BACK AT SCHOOL!

THEIR NAMES ARE TAKEN AT THE REGISTRATION DESK...
CAN WE GET IN TOUCH WITH OUR PARENTS?
WE'LL DO OUR BEST FIRST I'LL NEED TO KNOW A LITTLE SOMETHING ABOUT YOU. NAME... ADDRESS... FATHER'S NAME...
REGISTRATION

THEY ARE GIVEN FOOD BY RED CROSS AND WELFARE WORKERS...
GOLLY, THIS SURE LOOKS GOOD!


I WONDER WHERE ALL THE FOOD AND THINGS COME FROM?
I CAN TELL YOU, JIM!


HI! MR. MAYOR, WHAT ARE YOU DOING HERE?
BOY! MUST TAKE AN AWFUL LOT OF TIME TO WORK OUT A DISASTER PLAN!
IT DOES, JIM! BUT WITH THE HELP OF MY CIVIL DEFENSE COORDINATOR, THE HEADS OF THE VARIOUS CITY DEPARTMENTS, THE LOCAL RED CROSS AND OTHER COMMUNITY ORGANIZATIONS, WE FIGURED OUT EXACTLY WHAT OUR COMMUNITY RESOURCES WERE SO WE WOULD KNOW WHAT WAS AVAILABLE IF DISASTER STRUCK!
WELL, SALLY, THIS IS PART OF MY JOB. IT'S THE RESPONSIBILITY OF YOUR CITY'S GOVERNMENT TO BE READY TO MEET ANY TYPE OF DISASTER. YOU CAN SEE CENTERVILLE'S DISASTER PLAN IN ACTION NOW!
FOOD
RIGHT HERE IN CENTERVILLE OUR RED CROSS CHAPTER IS RESPONSIBLE FOR PROVIDING FOOD, CLOTHING AND LODGING FOR OUR DISASTER VICTIMS.
CLOTHING
BUT WHAT ABOUT ALL THOSE HOMES THAT WERE WASHED AWAY AND DAMAGED AND ALL THE FURNITURE THAT WAS RUINED?
IN CASES WHERE FAMILIES ARE UNABLE TO REPLACE THEIR OWN BELONGINGS, THE RED CROSS STANDS READY TO ASSIST TO REBUILD AND REPAIR THEIR HOMES...
LODGING

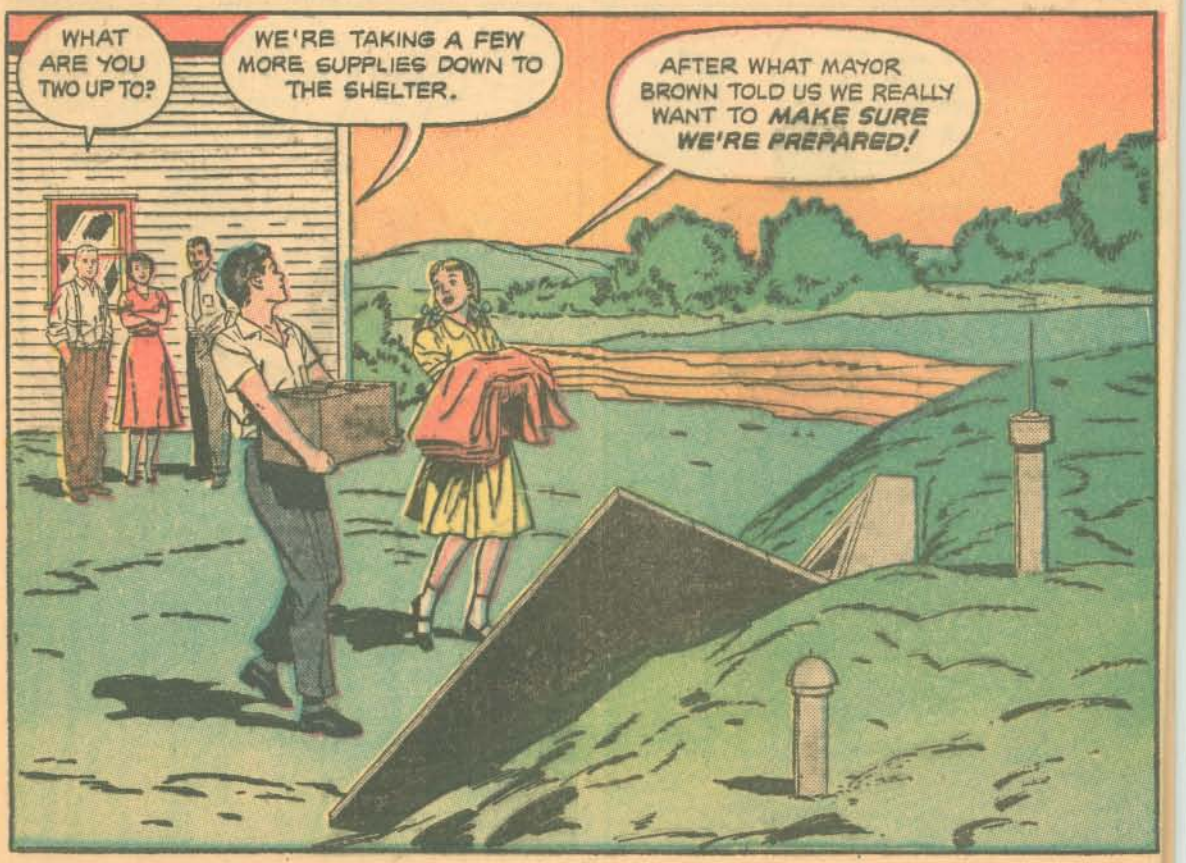

WHAT WOULD WE DO IF WE WERE ATTACKED?
WELL, JIM, WE CERTAINLY HOPE CENTERVILLE WILL BE READY! WE DECIDED WHAT COMMUNITY PREPAREDNESS WE WOULD NEED IN NATURAL AND ENEMY CAUSED DISASTERS--AND IT'S THE JOB OF OUR CIVIL DEFENSE COORDINATOR TO WORK OUT THE DETAILS OF THE PLANS!

ATER...
HEY, JIM, YOUR MOTHER AND FATHER ARE HERE LOOKING FOR YOU AND SALLY!
WHAT!

MOM!
DAD!
THANK HEAVEN YOU'RE BOTH SAFE... DON'T EVER GO OFF LIKE THAT AGAIN, YOU HAD US WORRIED SICK.

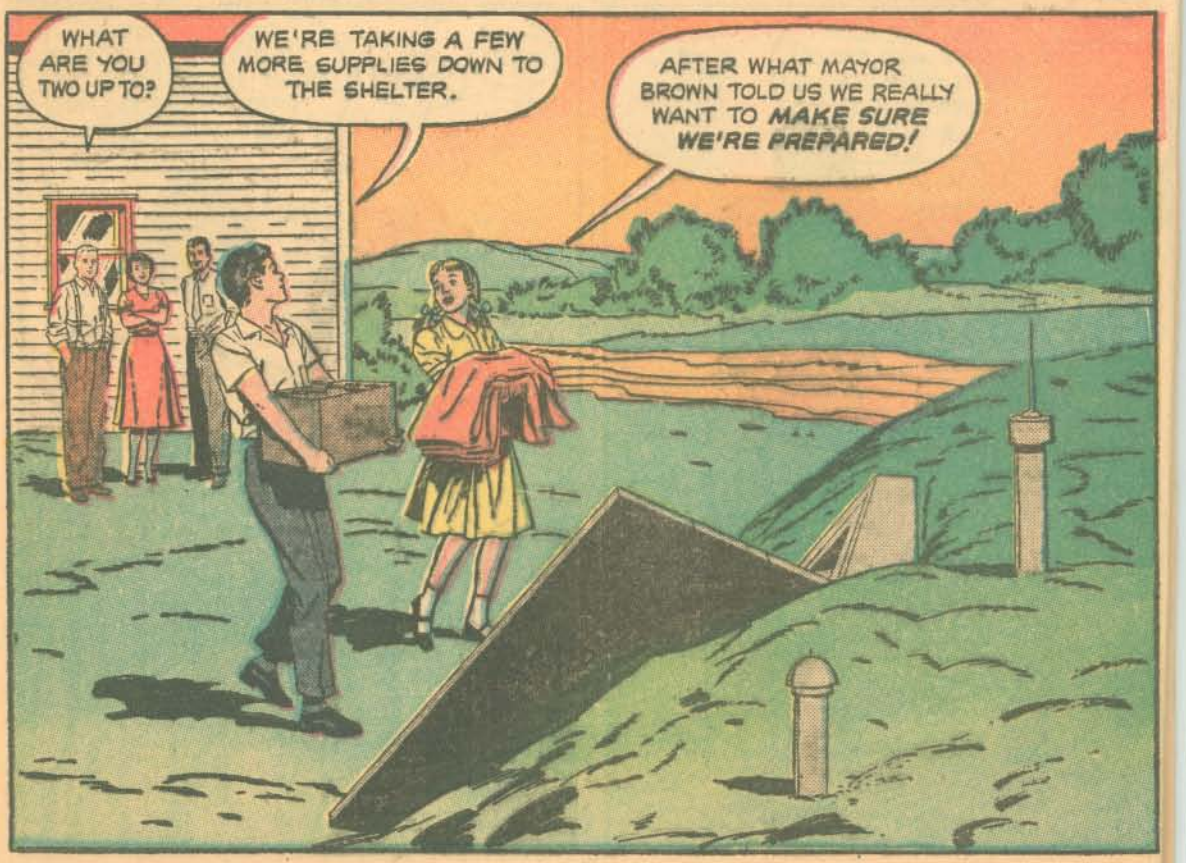
FINALLY THE EMERGENCY IS OVER...
IT'S GOOD TO BE BACK HOME AGAIN.
I'LL SAY!

HEY, SALLY, LET'S GO CHECK THE SUPPLIES IN THE SHELTER!
I'LL BE WITH YOU IN A MINUTE, JIM-- FIRST I WANT TO WRITE AND THANK THE PEOPLE ON THE ISLAND. GEE, I DON'T KNOW WHAT WOULD HAVE HAPPENED TO US IF THEY DIDN'T HAVE THE FOOD AND THINGS!

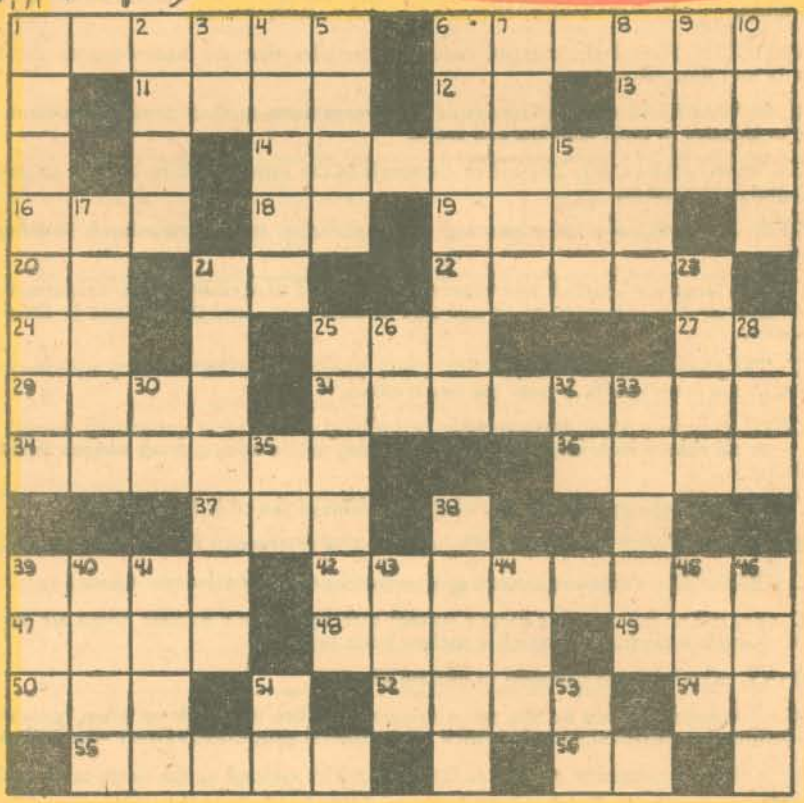

WHAT ARE YOU TWO UP TO?
WE'RE TAKING A FEW MORE SUPPLIES DOWN TO THE SHELTER.
AFTER WHAT MAYOR BROWN TOLD US WE REALLY WANT TO MAKE SURE WE'RE PREPARED!

FINALLY THE EMERGENCY IS OVER...
IT'S GOOD TO BE BACK HOME AGAIN.
I'LL SAY!

HEY, SALLY, LET'S GO CHECK THE SUPPLIES IN THE SHELTER!
I'LL BE WITH YOU IN A MINUTE, JIM-- FIRST I WANT TO WRITE AND THANK THE PEOPLE ON THE ISLAND. GEE, I DON'T KNOW WHAT WOULD HAVE HAPPENED TO US IF THEY DIDN'T HAVE THE FOOD AND THINGS!


WHAT ARE YOU TWO UP TO?
WE'RE TAKING A FEW MORE SUPPLIES DOWN TO THE SHELTER.
AFTER WHAT MAYOR BROWN TOLD US WE REALLY WANT TO MAKE SURE WE'RE PREPARED!

TRY YOUR HAND AT THIS PUZZLE AND SEE HOW MUCH YOU KNOW.



ACROSS

1 Place of refuge during a tornado
6 What an alarm indicates
11 Eastern continent
12 Elevated train
13 Rural Electrification Administration (abbr.)
14 What this puzzle is if you can't solve it
16 Before
18 A printer's measure
19 Not odd
20 Musical note
21 Advertisement
22 Where birds go for shelter
24 Road (abbr.)
25 Used in chemical warfare
27 He should know about Civil Defense
29 Objectives
31 The _____ Red Cross
34 He can help in emergencies
36 The size of the atom
37 Terminate
39 Term used in radio communications
42 Volcanic disaster
47 Your city is prepared to fight this
48 To nominate
49 Untruth
50 May be needed in airing a bomb shelter
52 An instrument of alarm
54 French definite article
55 Matter of law
56 Word of approval

DOWN

1 "640-1240" Emergency broadcasting system
2 The kind of person first-aid may help
3 Left side (abbr.)
4 Helped
5 Source of water supply
6 Civil _____
7 Alert Today— _____ tomorrow
8 Deep, guttural sound
9 Elongated fish
10 Fixed ratio
15 "These" in French
17 Communication vital to Civil Defense
21 Strict in living
23 A flood can wash out this part of a bridge
25 A well-cultivated tract of land
26 Morning hour
28 One no matter which
30 Program director
32 Neuter pronoun
33 _____ Defense
35 A good defense slogan is "Carry _____"
38 Unauthenticated report
39 Away
40 Small bottle
41 Sea eagle
43 Tattered cloth
44 Writing implement
45 Lubricate
46 Require
51 She should know about Civil Defense
53 A green traffic sign

ANSWER ON PAGE 31

GLOSSARY OF CIVIL DEFENSE WORDS AND TERMS

1. AIR BURST: Detonation of explosive ordnance (nuclear or other) in the air. For nuclear bombs this means high enough in the air so that the fireball does not reach the ground.
2. ALPHA PARTICLES: Positively charged particles emitted by some radioactive materials. They are dangerous only if ingested, inhaled, or by other means enter the body.
3. AREA TARGET: A target covering a considerable space, as distinct from a point target.
4. ATOMIC BOMB OR WEAPON: A device which utilizes fission reactions to obtain energy for destructive purposes.
5. BETA PARTICLES: Negatively charged radiation particles that are hazardous to the body, both externally and internally.
6. BIOLOGICAL WARFARE (BW): The use of living organisms or their products to cause death, disability, or damage in man, animals, and crops.
7. CHEMICAL WARFARE (CW): The use of chemicals in the form of solids, liquids, or gases to cause death, injury, or damage.
8. DOSIMETER: An instrument for measuring and registering total accumulated ionizing radiation exposure.
9. EVACUATION: Organized, timed, and supervised dispersal of civilians from dangerous and potentially dangerous areas, their reception and care in safer areas, and their return to their own home communities.
10. FALLOUT: The phenomenon whereby debris (dirt) particles, contaminated by radioactive material, fall back to the earth's surface from the bomb cloud.
11. FIRE STORM: Stationary mass fire generally in built-up urban areas generating strong, in-rushing winds from all sides which keep fires from spreading while adding fresh oxygen which increases its intensity.
12. GAMMA RAY: High energy nuclear rays which can damage the body by penetration.
13. GEIGER-MUELLER (G-M) COUNTER: Highly sensitive instrument for detecting radiation.
14. GROUND OBSERVER: Volunteer aircraft spotter for the Ground Observer Corps.
15. GROUND ZERO: The point on the earth's surface directly below a nuclear bomb air burst, directly above a subsurface burst, or at which a surface burst occurs.
16. INCENDIARY BOMB: Bomb designed to initiate fires.
17. LODGING: A temporary place to live when evacuated before an attack or when homeless after an attack (distinguished from "shelter" which offers special protection against weapons and effects).
18. NEUTRONS: Highy penetrating nuclear radiation particles emitted at the moment of explosion.
19. NUCLEAR BOMB OR WEAPON: A device which utilizes nuclear fission or fusion reactions to obtain energy for destructive purposes.
20. PSYCHOLOGICAL WARFARE: The use by an enemy of rumors, half-truths, propaganda, and covert operations leading to panic, fright, and disordered flight, which may destroy a people's will to resist.
21. RADIOACTIVITY: Spontaneous disintegration or nuclear transformation of certain atoms in which energy is released. The process is accompanied by emission of one or more types of radiation (alpha, beta, or gamma).
22. REFUGE: Any enclosure that will give some protection from the effects of weapons in the absence of a specially built shelter structure.
23. SHELTER: A specially built structure for protecting people, records, or equipment, from blast, thermal effects, and initial and residual radiation in attack.
24. SURFACE BURST: Detonation of explosive ordnance on or close to the ground or water surface. A nuclear bomb surface burst is characterized by the fireball touching the ground or water surface.
25. SURVEY RATE METERS: Portable instruments such as Geiger counters and ionization chambers used to detect radiation and measure dose rate.
26. TARGET: Any facility or group of facilities which because of large population concentration and/or for vital nature of the products or services to national defense is presumed to be a likely mark for enemy attack.
27. THERMONUCLEAR BOMB OR WEAPON: A device which makes use of thermonuclear fusion reaction to obtain energy for destructive purposes.

QUIZ

1. (Circle the correct answer.) In order to cope with any type of disaster, a community must (have many people) (be prepared) (wait for the armed forces).

2. List at least 6 agencies of your local government that must be ready to protect the people of a community in time of disaster.

   1. _____
   2. _____
   3. _____
   4. _____
   5. _____
   6. _____

3. Name at least 5 basic items that families should have in order to be prepared for any type of disaster.

   1. _____
   2. _____
   3. _____
   4. _____
   5. _____

4. What is radioactive fallout? _____

5. Name 2 instruments that are used for measuring radioactivity.

   1. _____
   2. _____

6. What is a dosimeter? _____

7. List 4 new ideas that you have learned from reading this booklet.

   1. _____
   2. _____
   3. _____
   4. _____

C	E	L	L	A	R			D	A	N	G	E	R	
O			A	S	I	A			E	L			R	E A
N			M			D	I	F	F	I	C	U	L	T
E	R	E				E	N			E	V	E	N	E
L	A			A	D				N	E	S	T	S	
R	D			U			G	A	S				P	A
A	I	M	S			A	M	E	R	I	C	A	N	
D	O	C	T	O	R						T	I	N	Y
				E	N	D			R			V		
O	V	E	R			E	R	U	P	T	I	O	N	
F	I	R	E			N	A	M	E			L	I	E
F	A	N			M			G	O	N	G		L	E
		L	E	G	A	L			R		O	K		D

LEARN

1. WARNING SIGNALS AND WHAT THEY MEAN.

2. YOUR COMMUNITY CIVIL DEFENSE PLAN.

3. FIRST AID AND HOME EMERGENCY PREPAREDNESS.

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